

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (Currently Amended) A zoom lens composed of plural groups and adapted to change group spacing or spacings to thereby perform magnification changing operation,

the zoom lens comprising:

a first group at least including a reflection member for bending or folding the optical axis and a negative subgroup at an object side relative to the reflection member, said first group being fixed during magnification changing operation;

a second group movably provided during magnification changing operation at an image side of the first group and having negative refractive power; and

a third group including a positive lens having non-spherical surfaces at both surface sides thereof, and a light quantity adjustment member at the image surface side, the light quantity adjustment member being fixed during magnification changing operation,

wherein the zoom lens is located within a lens barrel and said negative subgroup undergoes a lens barrel sinking operation, and

wherein, when the negative subgroup is caused to undergo [[a]]said lens barrel sinking operation, the reflection member is withdrawn by being rotated with a fulcrum which is not limited to one end side of the reflection member, and the negative subgroup of the

first groups is accommodated into a space thus vacated by the withdrawn reflection member.

2. (Previously Presented) The zoom lens according to claim 1,
wherein the negative subgroup of the object side relative to the reflection member
of the first group satisfies the following formula (1).

$$2.0 < |f_a/f_w| < 6.0 \quad (1)$$

In the above formula,

f_a : focal length of the negative subgroup of the object side relative to the
reflection member of the first group, and

f_w : focal length at broad angle end.

3. (Currently Amended) An image pick-up device comprising:
a zoom lens composed of plural groups and adapted to change group spacing or
spacings to thereby perform magnification changing operation; and
an image pick-up device for converting an optical image which has been formed
by the zoom lens into an electric signal,

the zoom lens at least including:

a first group at least including a reflection member for bending or folding
the optical axis and a negative subgroup at an object side relative to the reflection member, said
first group being fixed during magnification changing operation;

a second group movably provided during magnification changing
operation at an image side of the first group and having negative refractive power; and

a third group including a positive lens having non-spherical surfaces at both surface sides thereof, and a light quantity adjustment member at the image surface side, the light quantity adjustment member being fixed during magnification changing operation, wherein the zoom lens is located within a lens barrel and said negative subgroup undergoes a lens barrel sinking operation, and

wherein, when the negative subgroup is caused to undergo [[a]]said lens barrel sinking operation, the reflection member is withdrawn by being rotated with a fulcrum which is not limited to one end side of the reflection member so that the negative subgroup of the first group is accommodated into a space thus vacated by the withdrawn reflection member.

4. (Previously Presented) The image pick-up apparatus according to claim 3, wherein the negative subgroup of the object side relative to the reflection member of the first group satisfies the following formula (2).

$$2.0 < |f_a/f_w| < 6.0 \quad (2)$$

In the above formula,

f_a : focal length of the negative subgroup of the object side relative to the reflection member of the first group, and

f_w : focal length at broad angle end.

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